	(Original Signature of Member)
118TH CONGRESS 1ST SESSION H.R.	
To amend the National Quantum Initiative A partnership for near-term quantum applied tion, and for other purposes.	
IN THE HOUSE OF REP	RESENTATIVES
Mr. Obernolte introduced the following b Committee on	
A BIL	
To amend the National Quantum I a public-private partnership for plication development and accepurposes.	near-term quantum ap-
1 Be it enacted by the Senate	and House of Representa-
2 tives of the United States of Amer	ica in Congress assembled,
3 SECTION 1. SHORT TITLE.	

This Act may be cited as the "Quantum Sandbox for

6 SEC. 2. FINDINGS.

7 Congress finds as follows:

Near-Term Applications Act of 2023".

4

1	(1) The National Quantum Initiative and its
2	ongoing activities explore and promote Quantum In-
3	formation Science.
4	(2) Continual innovation by the quantum indus-
5	try of the United States is critically important.
6	(3) Quantum and quantum-hybrid applications
7	have the ability to provide innovative solutions for
8	near-term use cases across a variety of public and
9	private sector challenges.
10	(4) Many quantum computers are available via
11	the cloud and through a dedicated near-term quan-
12	tum application acceleration program that is inclu-
13	sive of the wide variety of quantum computing tech-
14	nologies will break down barriers to access quantum
15	computing hardware systems.
16	(5) Business and consumers of the United
17	States will be able to see benefits of the innovation
18	through a program focusing on near-term use of the
19	technology.
20	(6) Quantum information science is a
21	foundational technology that is transforming the
22	economy of the 21st century.
23	(7) Robust leadership in quantum research and
24	near-term development will have a great impact on
25	the economic security of the United States.

1	(8) Unrivaled excellence in workforce develop-
2	ment is key in developing next generation leaders in
3	quantum applications.
4	SEC. 3. PUBLIC-PRIVATE PARTNERSHIP FOR QUANTUM AP-
5	PLICATION DEVELOPMENT ACCELERATION.
6	(a) In General.—Title IV of the National Quantum
7	Initiative Act (15 U.S.C. 8851 et seq.) is amended by add-
8	ing at the end the following:
9	"SEC. 405. PUBLIC-PRIVATE PARTNERSHIP FOR QUANTUM
10	APPLICATION DEVELOPMENT ACCELERA-
11	TION.
12	"(a) Definitions.—In this section:
13	"(1) QUANTUM APPLICATIONS.—The term
14	'quantum applications' means algorithms and appli-
15	cations which use quantum mechanics through quan-
16	tum processing units. These applications include
17	quantum computing, quantum communication, quan-
18	tum sensing, and quantum-hybrid applications which
19	are applications that use both quantum computing
20	and classical computing hardware systems.
21	"(2) QUANTUM SANDBOX.—The term 'quantum
22	sandbox' means a program—
23	"(A) for innovation and development of ap-
24	plications using quantum information sciences
25	with a focus on near-term use cases: and

1	"(B) that can be used to develop and test
2	demonstrations, proofs of concepts, and pilot
3	applications.
4	"(3) Near-term use case.—The term 'near-
5	term use case' means an application that can be de-
6	veloped and deployed in less than 24 months.
7	"(b) Establishment of Quantum Sandbox Re-
8	QUIRED.—The Secretary of Commerce, in coordination
9	with the Director of the National Institute of Standards
10	and Technology, shall establish a quantum sandbox
11	through the establishment of a public-private partnership
12	focused on quantum computing application development
13	acceleration for quantum, quantum communication, quan-
14	tum sensing, and quantum-hybrid computing near-term
15	use cases.
16	"(c) Engagement.—As part of the Program and in
17	carrying out subsection (b), the Secretary shall, acting
18	through the Director of the National Institute of Stand-
19	ards and Technology, engage with the Quantum Economic
20	Development Consortium, the National Laboratories (as
21	defined in section 2 of the Energy Policy Act of 2005 (42 $$
22	U.S.C. 15801)), federally funded research and develop-
23	ment centers, and other members of the United States
24	quantum computing and quantum information eco-
25	system.".

- 1 (b) CLERICAL AMENDMENT.—The table of contents
- 2 of the National Quantum Initiative Act (15 U.S.C. 8801
- 3 et seq.) is amended by adding after the item relating to
- 4 section 404 the following new item:

"Sec. 405. Public-private partnership for quantum application development acceleration.".